

YANKS MAKE FRIENDS IN ARCTIC REGIONS

American Troops in Archangel Have
Won the Hearts of the
Natives.

CLIMATE LIKE WISCONSIN

Anywhere You Put Him the Yank
Shows Himself a Modest
Hero.

(By MARGARET WALTER)

LONDON, March 1.—Quite like a
home town on the American front-
ier in 4 is Archangel, where many
Yanks are wintering. Among other
activities they run the street car
lines of Archangel whenever the
polarized and conductors feel the
bocheviki epidemic coming over
them.

The log houses, the flabby swamp
that is the site of Archangel, its
domestic arrangements have just
been described to me by Capt. Wil-
liam H. Wynne, of the American
Red Cross, who until recently was
in charge of the Red Cross con-
flict at the far northern Russian
port and who carried up sufficient
supplies when he went last July to
keep the men in comfort for a year.
Captain Wynne took many photo-
graphs which he has turned over to
the American Red Cross. It has been
my privilege to see these interesting
pictures.

Because of the swamp every street
has a wide wooden road for wagons
or pedestrians down its center.
From this corduroy road run board
walks into every home and shop.

Boosted the Census.
In normal times Archangel has a
population of 90,000 but owing to
the disturbances in the surrounding
country which have driven many re-
fugees to the town for protection, and
the presence of allied troops, there
are about 120,000 souls there this
winter to be fed and clothed.

One of the largest buildings in the
town, the former prison, is now a
barracks for American soldiers and
they are also quartered in the other
schools which before the war were
among the best in Russia. The chil-
dren of Archangel still go to school
but they have been accommodated
in one building in order to make
room for the Yanks.

"Our soldiers have made a big hit
with the Russians," said Captain
Wynne. "The boys in Archangel are
all from the west, the 328th in-
fantary from Michigan and the first
battalion from the 31st engineers from Wisconsin."

Much Like Home.
There are many things in the
climate of Archangel that are like
home. The plains and the summer
climate, the farming country and the
hospitality. Life during the long
ice-bound winter too is very like it
is with our frontiersmen. Yanks are
at home here as busy as bees.
All summer we spent building
houses for this winter and improv-
ing roads which are the worst in
the world so that it would be possible
to transport goods and provisions
over them. Then we little by little
undertook to improve the town it-
self and help the inhabitants to get
a more comfortable way of things.
With this has come a certain respon-
sibility.

"How about fighting the bochev-
iks?" was asked.
"Well, of course, there is a cer-
tain amount of that, but by the
time our troops got to Archangel the
vast stores which they had been
sent to guard were already gone so
there hasn't been any fighting in the
town. Our troops who have been in
action are sick and eight days' journey
away or more. These troops have to
be kept provisioned and this is the
chief work of the Archangel contin-
gent."

Music Not Lacking.
"We have provided recreation for
the long winter evenings. There
are plenty of pianos in Russia so we
have as much music as we want."
The Y. M. C. A. has a complete out-
fit up there and they keep things
lively.

"Even in winter we have com-
munication with the world every-
where," when by almost superhu-
man efforts, sledges, are dragged
down the river to meet the boat from
the south.

CHIEF ENGINEER ALMOST GIVES UP

Thought He Would Have to
Stop Working; Tanlac
Makes Him Well Again.

"To my mind Tanlac is the greatest
medicine in the world," said O. H.
Mahaffey, chief engineer of the Life
& Casualty building, Nashville, Tenn.
for two years. "I continued, 'I
suffered awfully with the worst kind
of stomach trouble and went down
until I lost forty-eight pounds. My
back ached terribly and I suffered
so much misery from indigestion that
I thought I had an ulcerated stomach
and was actually afraid to eat any-
thing but a little oatmeal and sweet
milk. I got weaker every day till
finally, as nothing I took did me any
good, I thought I would just have to
throw up my job."

"My wife read in the papers where
a man who had suffered like I was
had been helped by taking Tanlac,
and she begged me to try it. After
I had taken Tanlac a few days I be-
gan to get hungry and started in eat-
ing like I was starved, and nothing
hurt me a bit. Soon those awful
pains in my stomach and back were
gone. I sleep fine at night now and
get up in the morning full of life and
energy and ready for my work."

Tanlac is sold in Tulsa by Quaker
Drug company, Puritan Drug com-
pany and by the leading druggists
in practically every city, town and
village in America.—Adv.

Easy Shorthand

It is now possible for you to learn
a superior shorthand method inside
of 5 hours; then speed can be gained
so that you write as fast as a person
talks. No need to spend months and
a lot of money in learning stenog-
raphy when it is now so easy and it
will be taught by mail. Absolutely
guaranteed. Free lessons will be sent
if you write to King Institute, 82-
281 Station P, New York, N. Y. Take
advantage of this free trial tuition
and offer. You will be surprised
and delighted. Show others this ad-
vertisement.

Norway which brings mail and a
certain amount of stores except in
the worst weather. So the boys get
letters from home now and then and
they have time to write home too
and plenty to write about."

Heroes Wherever They Go.
But nine chances to ten the things
that will not be written about are
just those which home folks would
be proud to hear of. One boy
tramped all night through the rain
over dangerous roads to find a doc-
tor to attend a woman who was in
extreme pain. A group of soldiers
gave their rations to bolshevik pris-
oners who were dying of starvation
in the prison. And as for the chil-
dren, as usual our boys made no
attempt whatever to keep from
spoiling every child no matter of
what nationality. In a short time
after American soldiers arrived the
town was full of Red Cross choco-
late, and other little trinkets the
children carried about, which the chil-
dren fancied.

Captain Wynne is now in London
preparing to go to Germany where
he is to take charge of some of the
Russian prisoners there. Food and
clothes are on their way to these
camps where the Russians are fac-
ing starvation. With the food and
warm clothes will go cheer and
friendliness and with little of its
pretty likely that trust and confi-
dence will result.

SPAVINAW IS CITY'S ONLY WATER SOURCE

CONTINUED FROM PAGE ONE

will meet the requirements of Tulsa
for time to come. He said that nothing
could shake his confidence along
this line, and that no other proposal
was worthy of detailed considera-
tion.

Under present market prices it will
cost the city approximately \$5,000-
000 to tap the Spavinaw and lay the
necessary conduit line, according to
Pressley. He believes, however, that
by the time the city is ready to go to
work on the project the market will
have dropped considerably. A bond
issue, to be passed by the city, will
be necessary to obtain the Spavinaw
water.

The report, in full, is copied here-
with:

Tulsa, Okla., March 1, 1919.
To the Honorable Mayor and City
Commissioners, Tulsa, Okla.
Gentlemen: In accordance with
your request, I have made examina-
tions and studies for a future water
supply for the city and beg leave to
make the following report:

You have stated that this investiga-
tion should be for a supply of
water not only for the present city,
but such as can be utilized when
the city has reached the population
of 200,000 to 250,000. It is evident
that it would be unwise for the city
to plan for the future in the construc-
tion of dams, conduits or other structures
for a source of supply that would be
inadequate as the city's population
increases, necessitating the aban-
donment of these works and the
construction of others at a new source.

It is not necessary that the entire
works be built for full capacity of
the requirements of a city of 200,000
people, but it is important that the
source of the water shall have this
capacity and that whatever struc-
tures are built shall be such that
they can be utilized with the future
growth of the city and its
waterworks system.

The study of this additional water

THOUSANDS HAVE KIDNEY TROUBLE AND DON'T KNOW IT

Most people do not realize the
alarming increase and remarkable
prevalence of kidney disease. While
kidney disorders are the most com-
mon diseases that prevail, they are
almost the last recognized by patients
and physicians, who content them-
selves with doctoring the effects
while the original disease undermines
the system.

Your other organs may need at-
tention—but your kidneys should
have attention first because their
work is most important.
If you feel that your kidneys are
the cause of your sickness or run
down condition, commence taking Dr.
Kilmer's Swamp-Root, the great kid-
ney, liver and bladder medicine, be-
cause as soon as your kidneys begin
to improve they will help all the
other organs to health.

A Trial Will Convince Anyone.
Thousands of people have testified
that the mild and immediate effect

SPECIAL NOTE—You may obtain a
sample size bottle of Swamp-Root
by enclosing ten cents to Dr. Kilmer &
Co., Binghamton, N. Y. This gives
you the opportunity to prove the remark-
able merit of this medicine. They
will also send you a book of valuable
information, containing many of the
thousands of grateful letters received
from men and women who say they
found Swamp-Root to be just the remedy
needed in kidney, liver and bladder
troubles. The value and success of Swamp-
Root are so well known that our readers
are advised to send for a sample size bottle.
Address Dr. Kilmer & Co., Binghamton, N. Y.
Be sure to say you read this offer in
The Tulsa Daily World.—Adv.

Gulf Fish and Oyster Co.

FISH AND OYSTERS
214-SOUTH BOSTON PHONE 6324

Fish for Lent

This market at all times uses every effort to carry
a large variety of fish. For the Lenten season we
have redoubled our efforts, urging our shippers to
use every means to stock us. Our exclusive contracts
with fresh fish catchers enables us to sell you fish
not obtainable elsewhere.

Let us help you select your next fish.

Horse Radish

Sold With a Money-Back Guarantee.

"If You Want Quality, We Have It."

A. BIUS, Prop.

supply has covered every practicable
source for the city, and one by one
these sources have been eliminated
as it has been found that they are
inadequate or undesirable, or that
they have not as great advantages
as a supply as some other. It has
been the effort to make this report
as brief as possible in order that it
may be brought to the attention of
all interested citizens. The state-
ments, however, made herein are
based upon extensive personal ex-
amination, analysis, surveys and
computations that have in every
case gone far enough to show, with-
out the least question or doubt, as
to the relative merits of each of the
sources considered.

The Arkansas River.
This, the present source of supply
of the city, is unsatisfactory as to
quality as is well known to all citi-
zens. It has been suggested that
the supply might be taken from the
Arkansas at a point farther up
stream, perhaps above the junction
of the Cimarron and the Salina, thus
obtaining a better quality of water.
The examination, however, of the
water of this river shows that the
quality is not good for domestic
purposes even above the junction
of the two branches. In fact, is not
of good quality as it enters the state
of Oklahoma from Kansas.

Water from Wells. Either shallow
or deep should always be taken into
consideration as a supply for a city,
but the extensive drilling that has
already been done near Tulsa, the
quantity of water obtained from
these wells, and particularly the
quality, shows clearly that this city
should not depend upon such a supply
at the present time, and certainly
not in the future when its demands
will be much greater.

Bird Creek.
This stream is within 10 miles of
the city but its drainage area is so
small and the quality of the water
makes it unfit for municipal use, and
Bird Creek has therefore been elimi-
nated.

Caney River.
This river, within 20 miles of the
city, is of a quality that could not
be used as a city supply, being salt
and otherwise chemically unfit, and
is therefore eliminated.

The Verdigris River. A much larger
stream, flowing from the state of
Kansas, and the records of its flow
for considerable periods are avail-
able. Throughout the greater part
of most years there would be suf-
ficient water in the Verdigris for
the use of the city of Tulsa. The
river becomes extremely turbid after
rains and remains so for long pe-
riods of time. Any supply taken from
Tulsa would necessarily be from the
river at a point above the junction
of Bird Creek and Caney river, as
these two branches add considerable
salt to the main stream. The intake
would be necessarily 26 to 30 miles
from the city. A dam would be re-
quired across the Verdigris in order
to get storage through dry periods.
The very high turbidity would re-
quire extensive filtration.

During the year 1918 the Verdi-
gris river ceased to flow even at
points where the bed was rocky and
where there was no opportunity for
underground seepage through the
riverbed. The city of Claremore,
which takes its supply from the Ver-
digris at a point near where Tulsa
would build its intake, was so short
of water last year that they were
compelled to blast through the rock
ledge and drain the pool's stagnant
water above the city intake; and even
with these efforts and the construction
of a small temporary dam below the in-
take, Claremore was dangerously
near a water shortage.

These conditions, together with the

fact that extensive storage on the
Verdigris is difficult to obtain, and
that extensive filtration would be
required, eliminates the Verdigris
river as a source of supply.

Swamp-Root is Pleasant to Take.
If you are already convinced that
Swamp-Root is what you need, you
can purchase the regular medium
and large size bottles at all drug
stores.

SPECIAL NOTE—You may obtain a
sample size bottle of Swamp-Root
by enclosing ten cents to Dr. Kilmer &
Co., Binghamton, N. Y. This gives
you the opportunity to prove the remark-
able merit of this medicine. They
will also send you a book of valuable
information, containing many of the
thousands of grateful letters received
from men and women who say they
found Swamp-Root to be just the remedy
needed in kidney, liver and bladder
troubles. The value and success of Swamp-
Root are so well known that our readers
are advised to send for a sample size bottle.
Address Dr. Kilmer & Co., Binghamton, N. Y.
Be sure to say you read this offer in
The Tulsa Daily World.—Adv.

fact that extensive storage on the
Verdigris is difficult to obtain, and
that extensive filtration would be
required, eliminates the Verdigris
river as a source of supply.

Hominy Creek.
This branch of Bird creek and its
neighboring tributary, Delaware
creek, are both too small to be se-
riously considered as supplies for
Tulsa.

Spring Creek.
This stream, flowing from the
east into Grand river, has a water
of excellent quality, but has a drain-
age area of only 175 square miles,
and while it would furnish the city
of Tulsa excellent potable water, the
size of its drainage area is a strong
argument for its elimination. It is
nearer to the city of Tulsa than
Spavinaw creek, another tributary of
the Grand flowing from the east,
but has less than half of its drain-
age basin, and is eliminated from
further consideration entirely on the
grounds of the quantity of water
available from its flow.

Salina creek, another stream flow-

ing from the east into the Grand
river, with a drainage area of ap-
proximately 115 square miles, also
would furnish water of excellent
quality but the size of its drainage
area precludes its use as a source of
supply for the city.

Pryor Creek.
This stream, flowing into the
Grand from the west, just below the
mouth of the Salina, is also to be
eliminated, both on account of the
size of its drainage area and the fact
that the quality of the water is not
as good as the streams flowing into
the Grand from the mountain re-
gions of the east.

Shell Creek.
Shell creek, a tributary of the Ar-
kansas, about four miles west of
Salt Springs, has a drainage area
at the point where a dam could be
constructed, of approximately 28
square miles. During dry years
there is no flow in the stream during
a large part of the year and during
the year 1918, a dry year, there was
no flow in the stream except imme-
diately after heavy rains. This drain-

age area even if such a dam were
just to the east, were added to
it would not supply sufficient water
for a city of a population you have
estimated to be, and therefore must
be eliminated as a source upon which
the city of Tulsa should spend money
in the construction of a dam and
conduit on the basis as laid down at
the beginning of this report, that it
is unwise for a city to spend money
in developing a source of supply of
a capacity insufficient for its future
needs, requiring later the abandon-
ment of all works constructed.

Grand River.
Grand river, a much larger stream
than any of the others that have
been considered, drains a large sec-
tion of Kansas, and flowing south
through the state of Oklahoma, re-
ceives many tributaries, carrying ex-
cellent water, particularly those
draining the hilly and mountainous
country to the east of the river.
There are few rivers the size of the
Grand in the southwest country that
have a quality of water better for
domestic use than this stream. As a

source of supply for the city of
Tulsa it has been very carefully con-
sidered. An excellent potable water
could be obtained from this source.
The proper place for an intake
from the Grand would be at the
point due east from the city of Tulsa,
just to the south of where the Chero-
kee-Creek nation line crosses the
river. Water from this source would
be pumped through 38 to 40 miles of
conduit, the intake being at an ele-
vation below the city of Tulsa.
Steam power would be required for
this purpose unless the city con-
structed a dam across the Grand

river for the purpose of developing
electric power, such power to be used
for pumping the water to the city.
Such a dam could not be built at the
nearest point of intake on the Grand,
but could be constructed three miles
farther down stream where the
banks of the river are comparatively
steep, forming abutments for a dam
across the Grand river. Such a dam,
however, would involve the expendi-
ture of a considerable sum of money
both for the structure itself and for
the area of land that would be sub-
merged. This site has been suggested
in years past as the possible location
for the purpose.

CONTINUED ON NEXT PAGE

Attractive Spring Apparel

Many New Arrivals Featured This Week

The apparel section is going to offer a most wonderful display of the very latest in fashions for spring wear.

Suits, Dresses, Coats, Capes

In styles that show every new trend—every woman will take great delight in admiring this complete showing. The prices will astonish in their moderateness.



Exclusive Pattern Modes In Millinery

The Millinery section features for this week a special display of pattern modes—all from foremost designers and exclusive styles. A revelation in beauty and artistic creations—that's what you will pronounce this showing.

PRICED SPECIAL FOR THIS WEEK

In the Footwear Section

A women's shoes in high or low heels. Choice of all shades leathers. Placed in one lot for this week's clean up at, choice \$4.95

House shoes in bouclair styles. Choice of all colors and many different styles. For this week at \$1.75

One lot of felt comfy shoes and slippers. Priced for this week at \$1.69

Peters Weatherbird Stitchdowns for chil- dren; in brown and black; lace or button \$2.75

Our complete line of satin poplin bouclair and lounging slippers, also moccasins, offered this week at special prices.

Spring Footwear Styles

All the new styles in low cuts, oxfords and pumps for women and misses are now ready for approval. A choice of every correct style, last and in choice of colors. Also white canvas shoes and low cuts.



HARLOW BROKERAGE

205 SOUTH MAIN

Oxfords and Pumps

In the newest creations, reflecting elegance and grace and made in durable leather.

Priced to Save You \$1 to \$3 a Pair



OXFORDS

Black kid with pretty covered heels; \$7.50 value; our price \$5.95

\$9 value; our price \$6.95

Gray kid with pretty covered heels; \$10.00 value; our price \$7.45

Brown kid, high heels; \$7.50 value; our price \$5.45

Brown kid, military heels; \$7 and \$8 value; our price \$5.45, \$5.95

SPATS IN GRAY, WHITE, BLACK AND BROWN, per pair \$2.00



PUMPS

Opera style, in patent, dull or glazed kid, with pretty covered heels; \$7.50 and \$8 value; our price \$5.95

Colonial style with pretty covered heels; dull kid; \$8.50 value; our price \$6.45

Other styles; leather Louis heels; patent, dull or brown kid—\$4.95 to \$5.95

Plain pumps; patent or dull, high or low heels; \$5 value; our price \$4.35

SPATS IN GRAY, WHITE, BLACK AND BROWN, per pair \$2.00

Our Upstairs Location, our Low Expense, our Advantageous Buying Facilities with our other connections enables us to ALWAYS SELL FOR LESS

"ASK YOUR FRIENDS ABOUT US"

Tulsa Upstairs Sample Shoe Co.

Over Palace Theater. 219½ South Main Street. Opposite Kress



DON'T LET CARBON HOLD YOU UP!

IF YOU own an automobile come—see—learn all about the Hart-Bell Carbon Remover, the device that puts an end to carbon troubles.

See how simple it is to operate, learn how correct and sane the principle is and how sure it is in ending carbon troubles.



Factory Representative here

(All this week.) We sell and guarantee this wonderful device which is now used on more than seventy-five thousand cars.

Free installation all this week at

Times Square Auto Supply Co. 213 E. Second St.

Price \$5.00 \$6.00

HART-BELL

Some Pertinent Facts

ABOUT THE

FEBRUARY SALES

AT Traders No. 4

At 105 East First Street

- 1.—A total of over \$41,000.00.
- 2.—The biggest day's sale was \$37,195.7.
- 3.—The lowest day's sale was approximately \$1,000.00.
- 4.—On account of the declining markets, customers were advised to buy conservatively.
- 5.—The Seven Great Business Principles radiated through the entire store, which protected the customers, not alone in prices, but in all that goes with good merchandising.
- 6.—Every day's business showed an increase over the corresponding day for last year.
- 7.—The month showed an increase of \$5,000.00 over the same month last year.



My 14 Points In Suits—

"Will be demonstrated to you 'without money and without price' if you but step into this 'Little Shop 'o Mine' and ask us. They're from awe to you too; superbly made and ready-to-wear. It doesn't matter whether you pay as little as \$25 or as much as \$50 you'll get the maximum of quality at the price."

LEE LEVING
TAILORS
AND FURNISHERS

Hotel Tulsa
115 EAST THIRD